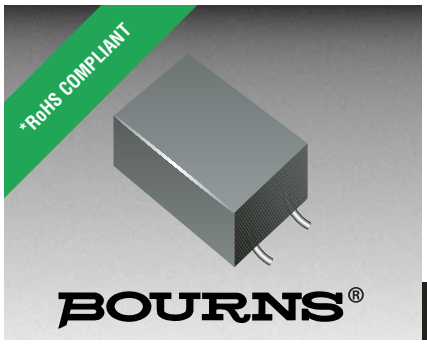


Features

- Lead free
- RoHS compliant*
- Sector windings
- Wide frequency range over 500 MHz
- Rated current 0.1 to .025 A
- High quality toroidal core

Applications

- For the suppression of EMI in data and signal lines, e.g. CAN Bus

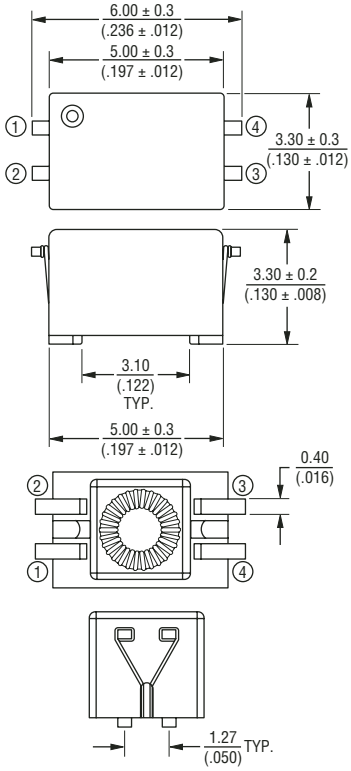
DR221 Series Surface Mount Data Line Chokes

Electrical Characteristics (@ 25 °C)

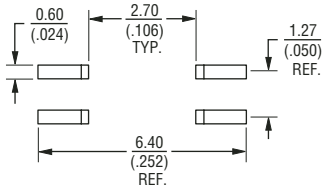
Bourns Part Number	L1, L2 @ 10kHz, 0.1 Vrms (μH)	Freq. Range (MHz)	Impedance Min. (Ω)	RDC (Ω) (Each Winding)		Rated Current (mA)
				Max.	Typ.	
DR221-113AE	11.0 +50 %/-30 %	100~500	450	0.18	0.13	250
DR221-223AE	22.0 +50 %/-30 %	40~300	900	0.23	0.17	250
DR221-333AE	33.0 +50 %/-30 %	30~250	1000	0.27	0.20	200
DR221-513AE	50.0 +50 %/-30 %	20~150	1400	0.32	0.24	200
DR221-474AE	470 +50 %/-30 %	2.5~60	1100	0.35	0.28	100

Rated Voltage .....50 Vdc/100 Vac (ref.)
Hipot (1 sec.).....500 Vac/60 Hz, 3 mA
Operating Temperature ....-40 to +125 °C
Storage Temperature .....-40 to +125 °C
Temperature Rise
.....25 °C max. at rated current
Resistance to Solder Heat
.....260 °C 10 sec.
Core .....Ferrite
Wire .....Enameled copper wire (Class F)
Base .....LCP (UL 94V-0)
Terminal .....Cu/Ni/Sn
Adhesive.....Epoxy resin
Weight .....2 g
Packaging .....500 pcs. per reel

Product Dimensions

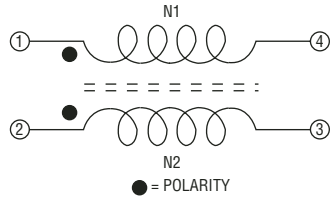


Recommended PCB Layout



DIMENSIONS: MM / (INCHES)

Schematic

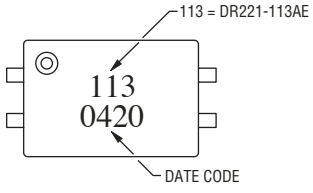


How to Order

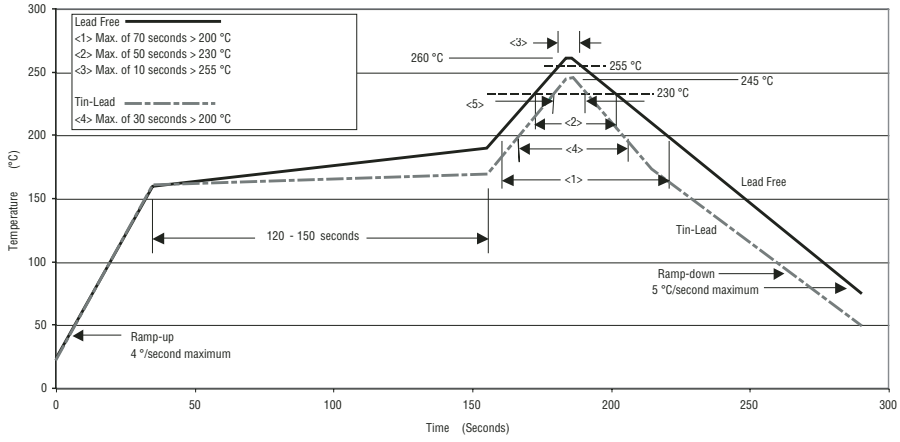
DR221 - 513 AE

Model
Value/Tolerance
See Model-Value Table
Termination
AE = Cu/Ni/Sn (Lead Free)

Typical Part Marking



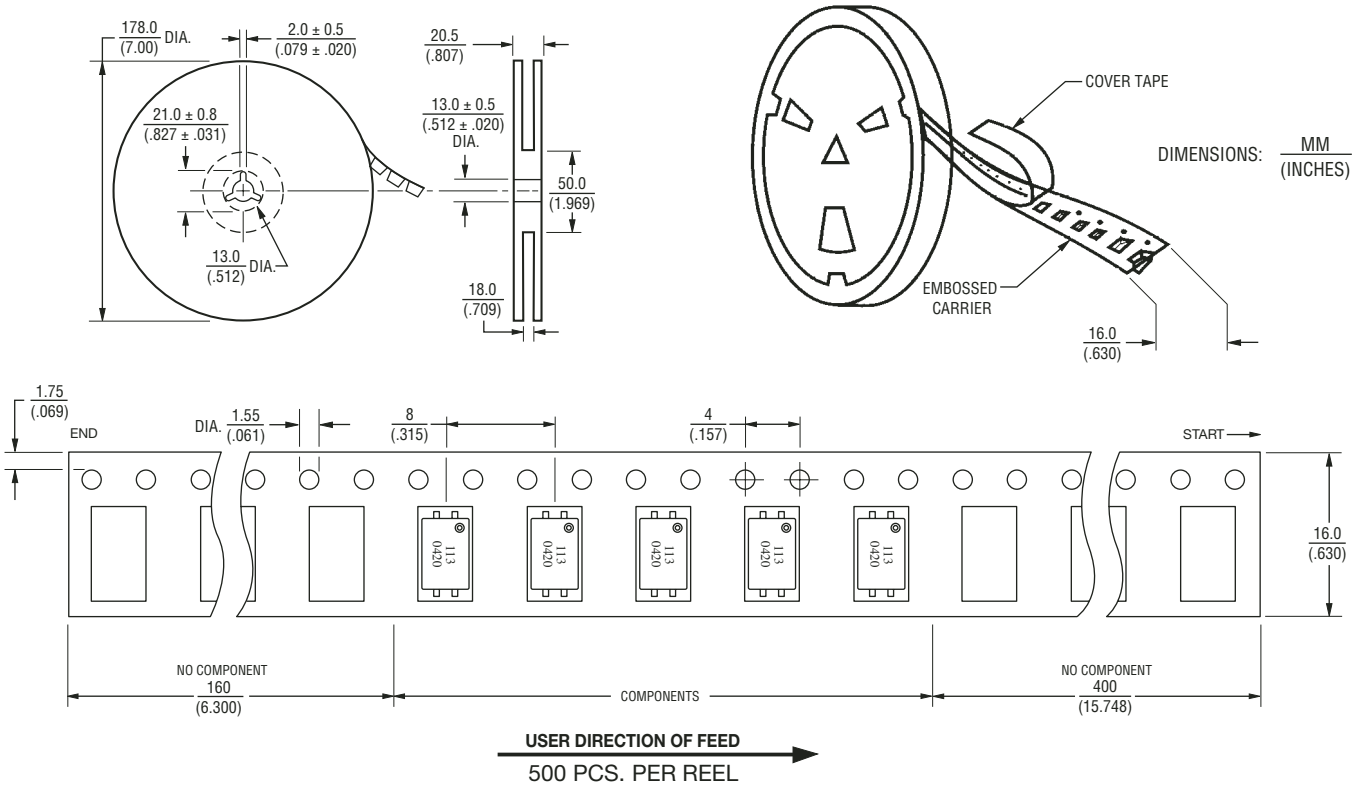
Solder Profile



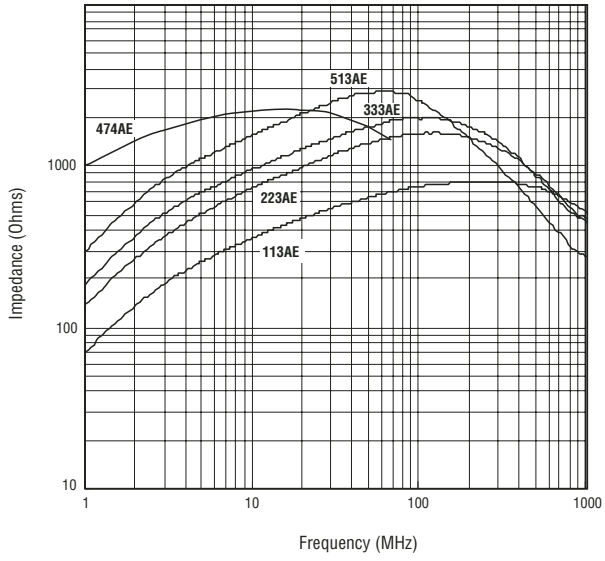
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

DR221 Series Surface Mount Data Line Chokes

Packaging Specifications



Impedance vs. Frequency



REV. 05/05

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